



Rad27 (γ -220): sc-98273

BACKGROUND

Cells utilize mechanisms of mismatch repair (MMR) to maintain the integrity of the genome. DNA single-base mismatches include misincorporation of nucleotides by DNA polymerase, deamination of cytosine to uracil thereby forming U/G mispairs, or recombination between homeologous sequences. The *Saccharomyces cerevisiae* Rad27 gene encodes the yeast homologue of the mammalian FEN-1 nuclease, which processes Okazaki fragments during DNA lagging-strand synthesis. Rad27 (FEN-1) protein is a single-stranded DNA endonuclease and 5'-3' exonuclease that functions in the msh2-mlh1-pms1-dependent MMR system. The endonuclease activity of Rad27 (FEN-1) reduces recombination events between short sequences.

REFERENCES

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RESEARCH USE

For research use only, not for use in diagnostic procedures.

SOURCE

Rad27 (γ -220) is a rabbit polyclonal antibody raised against amino acids 163-382 mapping at the C-terminus of Rad27 of *Saccharomyces cerevisiae* origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Rad27 (γ -220) is recommended for detection of Rad27 of *Saccharomyces cerevisiae* origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.